Gravatt, Dan

From: Westlakemoms <westlakemoms@gmail.com>
Sent: Tuesday, May 06, 2014 11:51 PM
To: mlavanchy@pattonvillefd.com; mfulton@psdr3.org; Kim_Bakker@ssmhc.com; bill.otto@house.mo.gov; maria.chappellenadal@senate.mo.gov; kbaker@marylandheights.com; jimcarver@marylandheights.com; ferdfetsch@sbcglobal.net; randyward3@att.net; golfsinger@earthlink.net; Jerry Grimmer; babram5@charter.net; RSaetteleWard1@aol.com; scottzimmer@qualitytesting.net; MayorBowers@yahoo.com; Joeana_Middleton@mccaskill.senate.gov; Kerry_DeGregorio@blunt.senate.gov; Lou.Aboussie@mail.house.gov; brendan_fahey@mccaskill.senate.gov; Brecht.Mulvihill@mail.house.gov; sstenger@lawsaintlouis.com; jocro316@aol.com; Steven.Engelhardt@mail.house.gov; WRay@stlouisco.com; council@sccmo.org; Daren.Eppley@ago.mo.gov; Christopher.Nagel@dnr.mo.gov; aaron.schmidt@dnr.mo.gov; Gravatt, Dan; Washburn, Ben; gthackrey@fsmonline.org
Subject: BMAC Lab Results Confirm Radiation Spike
Attachments: Gammapal Results_ _May 6, 2014.pdf

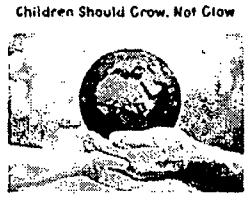
Today we received the laboratory results from the GammaPal soil samples sent to Mr. Marco Kaltofen, MS, PE, (Civil Mass.) with Boston Chemical Data Corp. an Independent out of state laboratory.

Attached is the letter that is being released to the Media on Wednesday at 12 p.m. cst, of the results. Soon after that the information will be posted to our Website and Facebook pages. Mr. Kaltofen has graciously given his permission for anyone who has questions, to call or email him. His information is on the attached Media release.

Sincerely,

Just Moms STL

Just Moms STL
Non-Profit Organization



Westlakemoms@gmail.com

FOR IMMEDIATE RELEASE

GammaPal produced an unusual spike.

Bridgeton, MO 63044 (May 7, 2014) – The GammaPal radiation detector, which was donated to Just Moms STL, was used recently used to sample soil at a local Community Athletic Field near the West Lake Landfill in response to concerns by the Community. The GammaPal detector measured an unusual spike.

Just Moms STL shared (or delivered) the data analyzed by the GammaPal directly to the Environmental Protection Agency Region VII [EPA], Missouri Department of Natural Resources [MO-DNR], Missouri Department of Health and Senior Services [MO-DHSS] as well as the State and Federally Elected Officials for the State of Missouri.

Additionally, the data information along with soil samples from various locations at the athletic field were delivered to *Marco Kaltofen, MS, PE, (Civil Mass.) with Boston Chemical Data Corp. an Independent out of state laboratory.

The laboratory results furnished by Mr. Kaltofen, confirm that the unusual spike detected by the GammaPal is an abnormal concentration of radioactive Lead 210 (see BMAC0004 results). Several of the other samples were WELL above background at the Bridgeton Municipal Athletic Complex (BMAC) and warrant further examination.

Based on these results, we are asking on behalf of the residents and employees in close proximity around West Lake Landfill, and for the many who utilize this community athletic field, that our Government Agencies test this site.

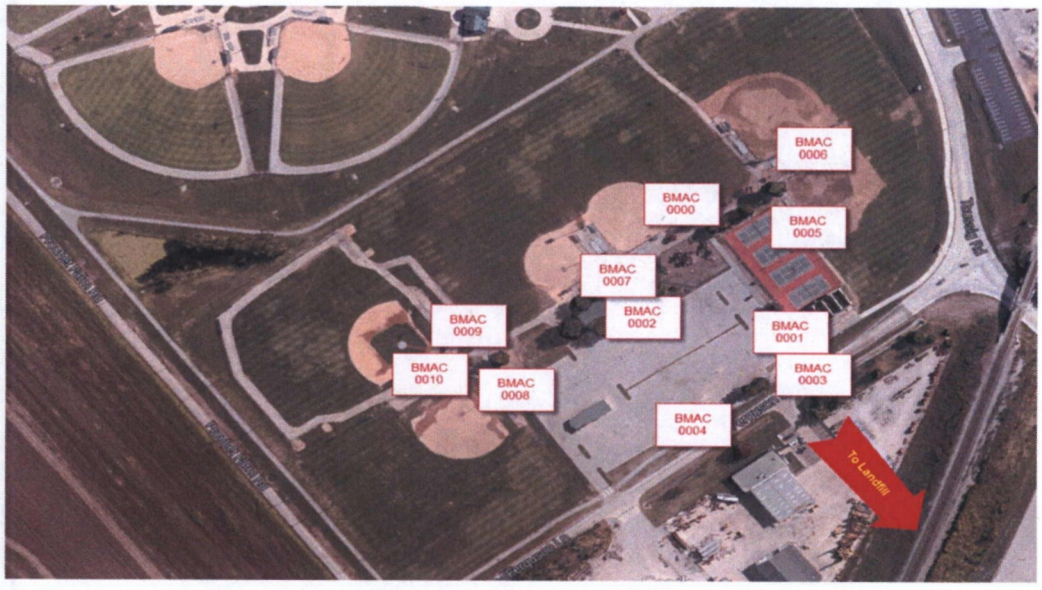
*Mr. Marco Kaltofen, MS, PE, (Civil Mass.); Boston Chemical Data Corp., 2 Summer Street, Suite 14, Natick, MA 01760 / Dept of Civil and Environmental Engineering, Kaven Hall, Worcester Polytechnic Institute, Worcester, MA 01609. (C) (508) 259-6717 (O) (508) 314-9334 (E) bostonchemicaldata.com

Just Moms STL is a non-profit organization working with the residents and employees living and working in and around the Westlake Landfill Complex in Bridgeton, MO to help find a way to keep their community safe. Westlake Landfill has radioactive waste materials from the Manhattan Project were illegally dump in 1973 and has within its complex at the Bridgeton Landfill a subsurface smoldering event [SSE] /Fire.

REPORT: http://tinyurl.com/of9hmxb

1 Bq ≈ 27 pCi

Bridgeton, MO Athletic Complex, Soil samples screened for gamma emitters by NaI gamma spectroscopy	Date Sampled	Time Sampled	Net cpm/g dry soil	Bq/kg	pCi/g
BMAC0000 Field # 4	NA	NA	11.38	190	5.13
BMAC0001 West side of racquetball courts	4/16/2014	1020 AM	6.27	105	
BMAC0002 South side of eating pavilion	4/16/2014	1023 AM	7.70	128	
BMAC0003 Ditch between S parking & Ferguson	4/16/2014	1032 AM	7.62	127	
BMAC0004 Drainage area in S parking lot	4/16/2014	1036 AM	10.30	172	4.64
BMAC0005 Between Field 6 & racquetball courts	4/17/2014	1430 PM	6.21	104	
BMAC0006 Between Field 5 and Field 6	4/17/2014	1435 PM	5.90	98	2.65
BMAC0007 North side of eating pavilion	4/17/2014	1445 PM	6.19	103	
BMAC0008 Behind backstop of Field 1	4/17/2014	1450 PM	7.09	118	
BMAC0009 Behind # 2 backstop & # 3 outfield	4/17/2014	1501 PM	7.10	118	
BMAC0010 Under bleachers of Field 1	4/17/2014	1508 PM	5.80	96.7	



Purpose: The purpose of the screening was for research, with the primary objective of determining qualitatively if uranium or thorium isotopes were present in the samples above back ground levels.

Lab Protocol: All samples were tested as air dried soils. Sample weights are noted. Tests were performed using a USC30 sodium iodide well detector and a 1K channel MCA, with USC30 spectral viewing software.

Analysis: Multiple samples showed evidence of the presence of naturally-occurring uranium and/or thorium and their daughter isotopes. These were only noted where they appeared to exceed the blank levels.

Recommendations: Based on these spectra, quantitative analyses by a certified laboratory are suggested. Based on these initial results, it appears probable that uranium and thorium and their daughter isotopes will be found above background levels.

Laboratory Comments: These are screening analyses for gamma emitters and any isotopic identifications are qualitative. All samples had peaks associated with 40K, which is naturally-occurring, ubiquitous in the environment and unlikely to produce a significant net dose.

Sample Analysis:

BMAC0000 – Field 4: Relatively high net count rate. Peaks consistent with detectable levels of naturally-occurring uranium and/or thorium isotopes. Suggests need for isotopic quantitation by certified laboratory.

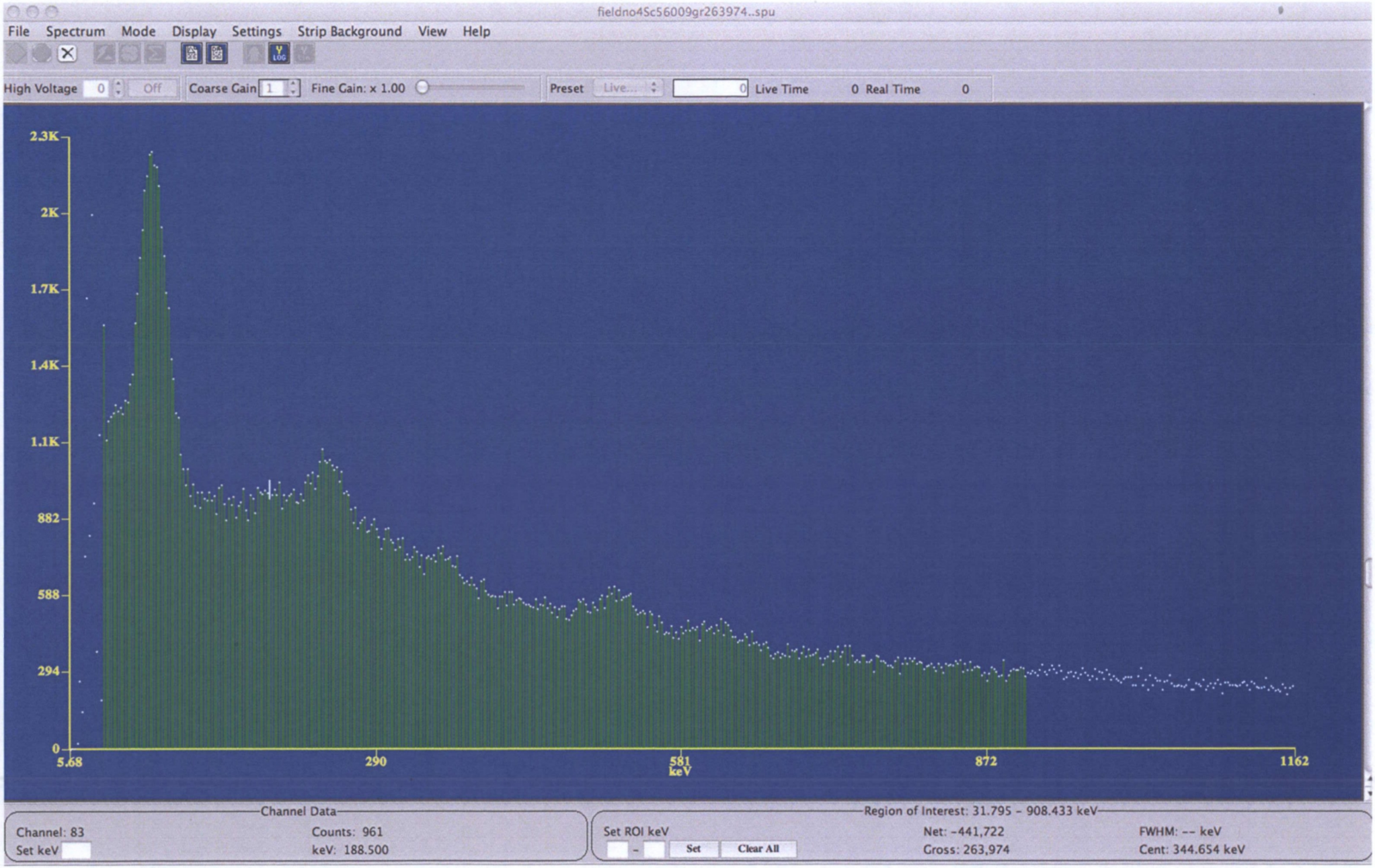
BMAC0004 – Drainage area in South parking lot: 46 keV peak match to 210Pb. Relatively high net count rate. Suggests need for full quantitative analysis by certified laboratory.

BMAC0008 – Behind backstop of Field 1: Peaks consistent with detectable levels of naturally-occurring uranium isotopes. Possible 226Ra peak at 186 keV, however 235U also has a peak near this energy.

BMAC0009 – Behind Field #2 backstop and Field #3 outfield: Peaks consistent with detectable levels of naturally-occurring uranium isotopes. Possible 226Ra peak at 186 keV, however 235U also has a peak near this energy.

BMAC0010 – Under bleachers of Field 1 - Detectable 46 keV peak.

BMAC0000 – Spectra Data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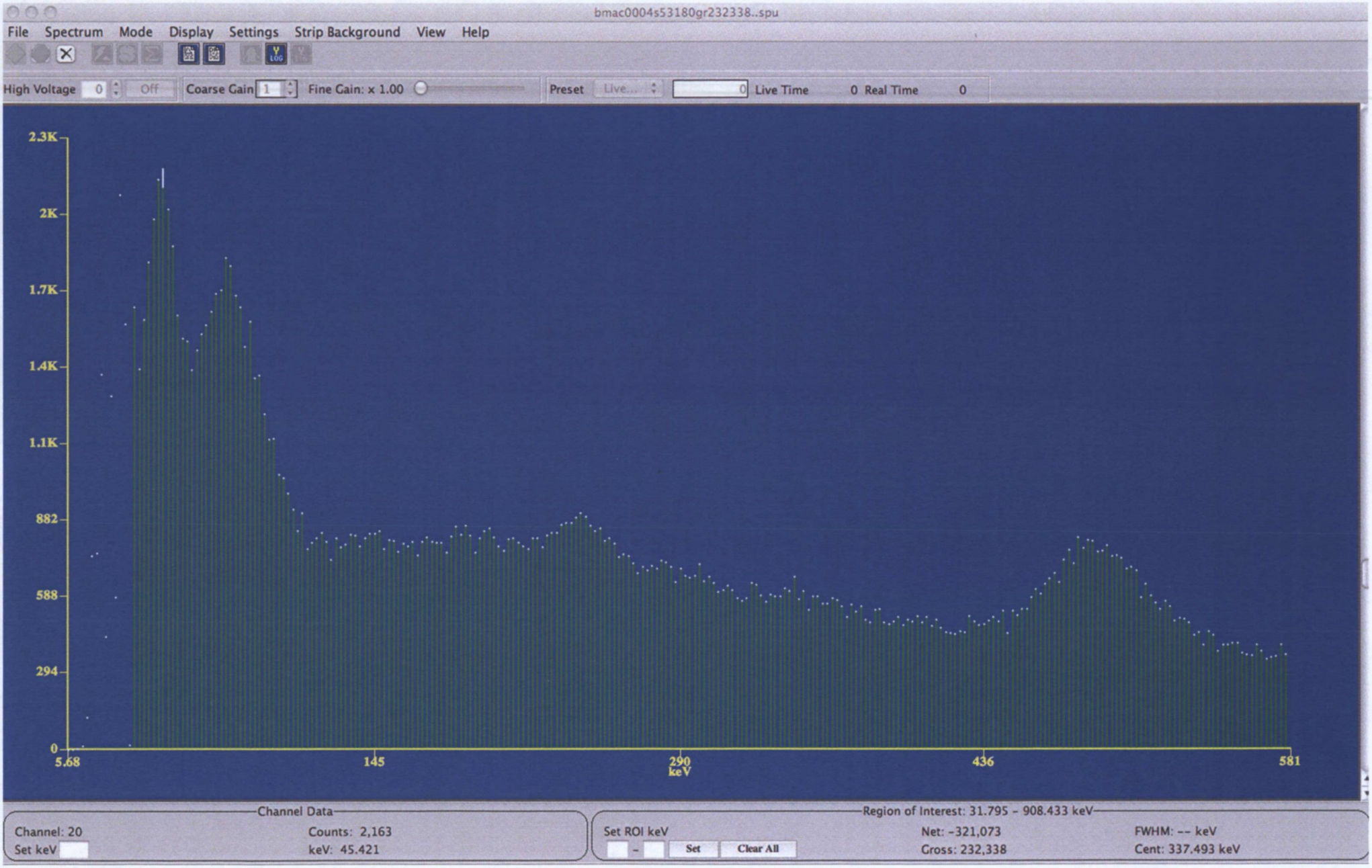
High Voltage 0 Off
Coarse Gain 1
Fine Gain: x 1.00
Preset Live...
0
Live Time 0 Real Time 0
2.3K
2K
1.7K
1.4K
1.1K
882
588
294
0
5.68
290
581
keV
872
1162
Channel Data
Channel: 83
Set keV
Counts: 961
keV: 188.500
Region of Interest: 31.795 - 908.433 keV
Set ROI keV
Set
Clear All
Net: -441,722
Gross: 263,974
FWHM: -- keV
Cent: 344.654 keV

BMAC0004 – Spectra Data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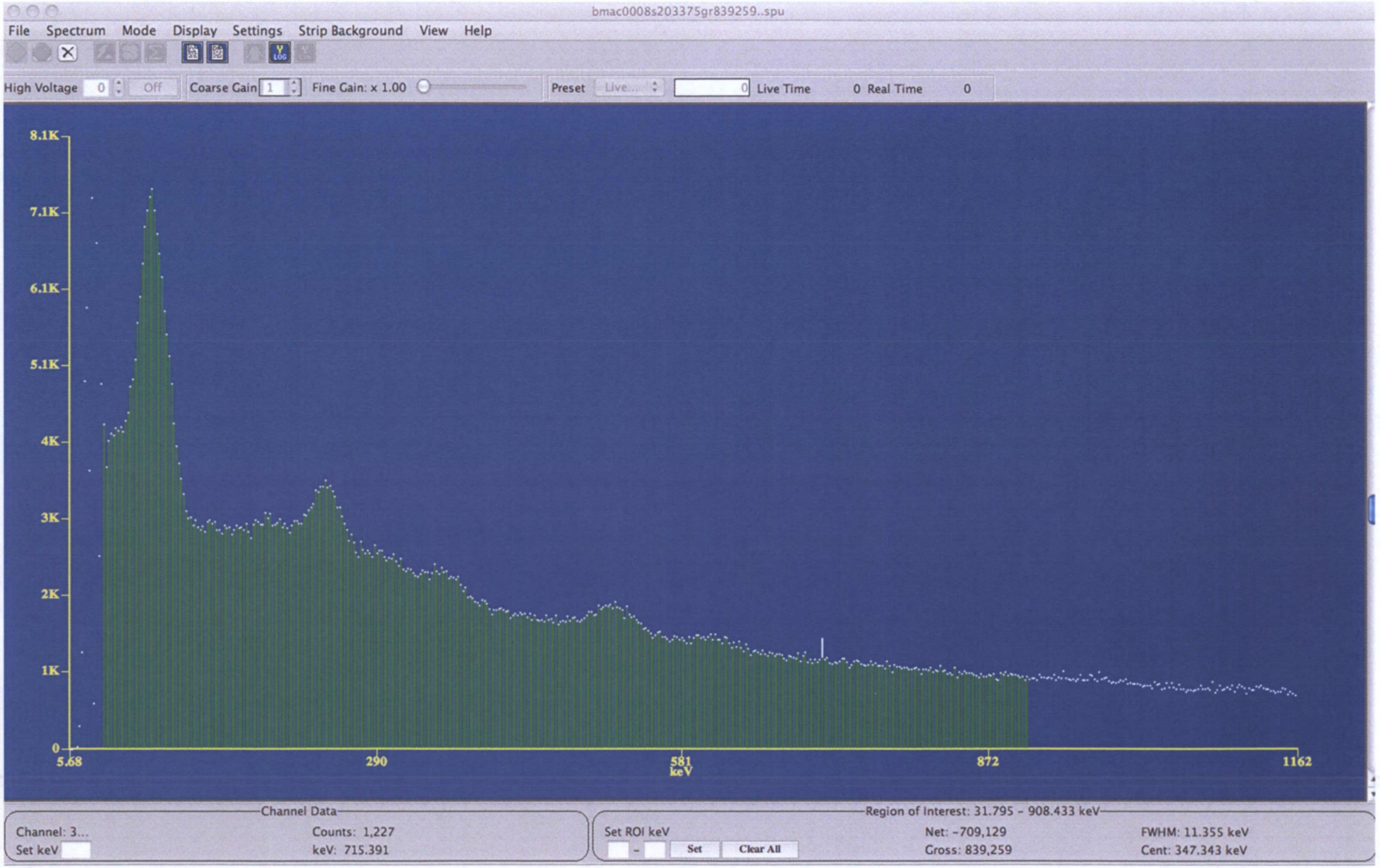
Fine Gain: x 1.00
Preset Live...
0
Live Time 0 Real Time 0
2.3K
2K
1.7K
1.4K
1.1K
882
588
294
0
5.68
145
290
keV
436
581
Channel Data
Channel: 20
Set keV
Counts: 2,163
keV: 45.421
Region of Interest: 31.795 - 908.433 keV
Set ROI keV
Set
Clear All
Net: -321,073
Gross: 232,338
FWHM: -- keV
Cent: 337.493 keV

BMAC0008 – Spectra Data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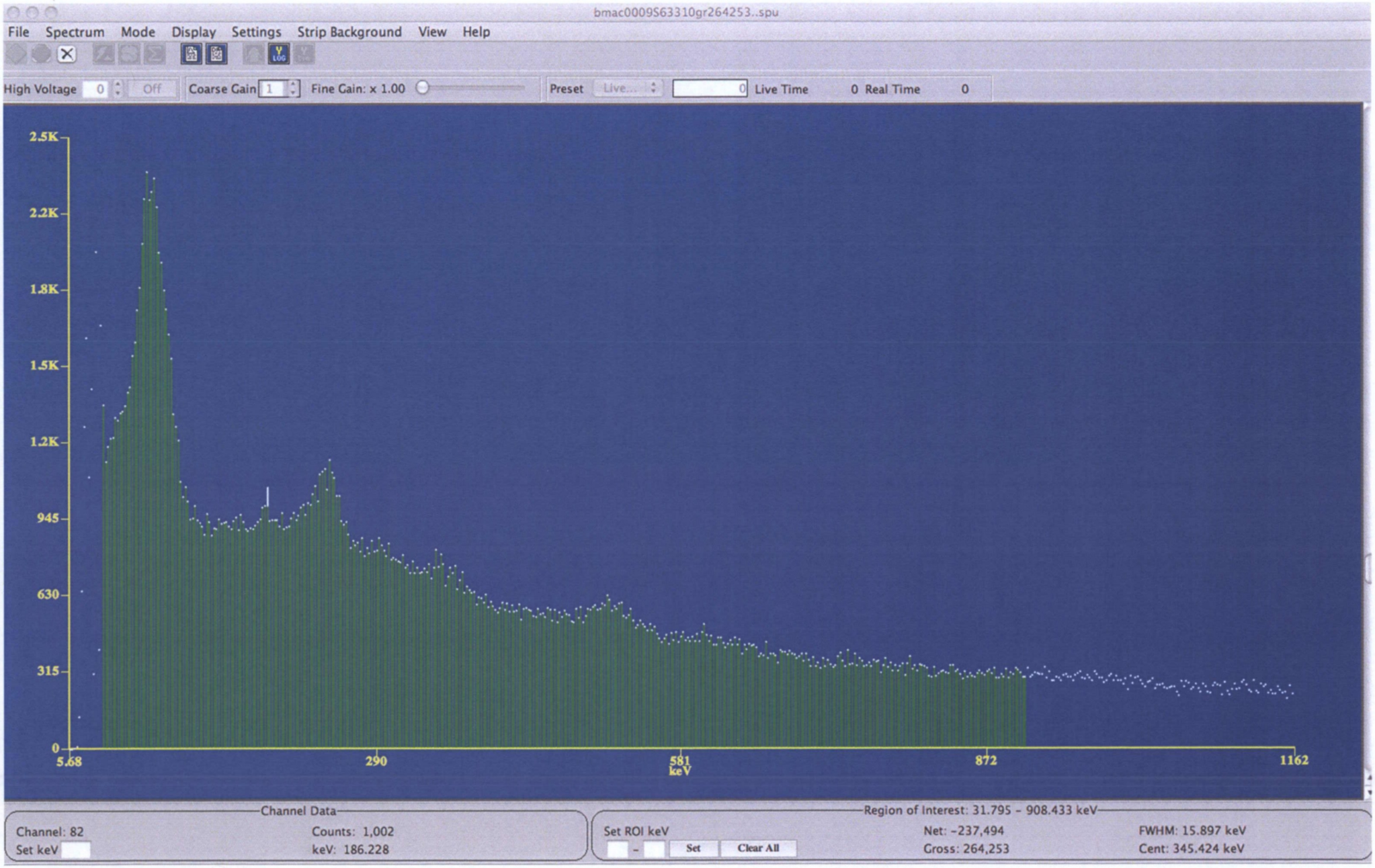
Coarse Gain 1
Fine Gain: x 1.00
Preset Live...
0 Live Time
0 Real Time
0
8.1K
7.1K
6.1K
5.1K
4K
3K
2K
1K
0
5.68
290
581
872
1162
keV
Channel Data
Channel: 3...
Set keV
Counts: 1,227
keV: 715.391
Region of Interest: 31.795 - 908.433 keV
Set ROI keV
Set
Clear All
Net: -709,129
Gross: 839,259
FWHM: 11.355 keV
Cent: 347.343 keV

BMAC0009 – Spectra Data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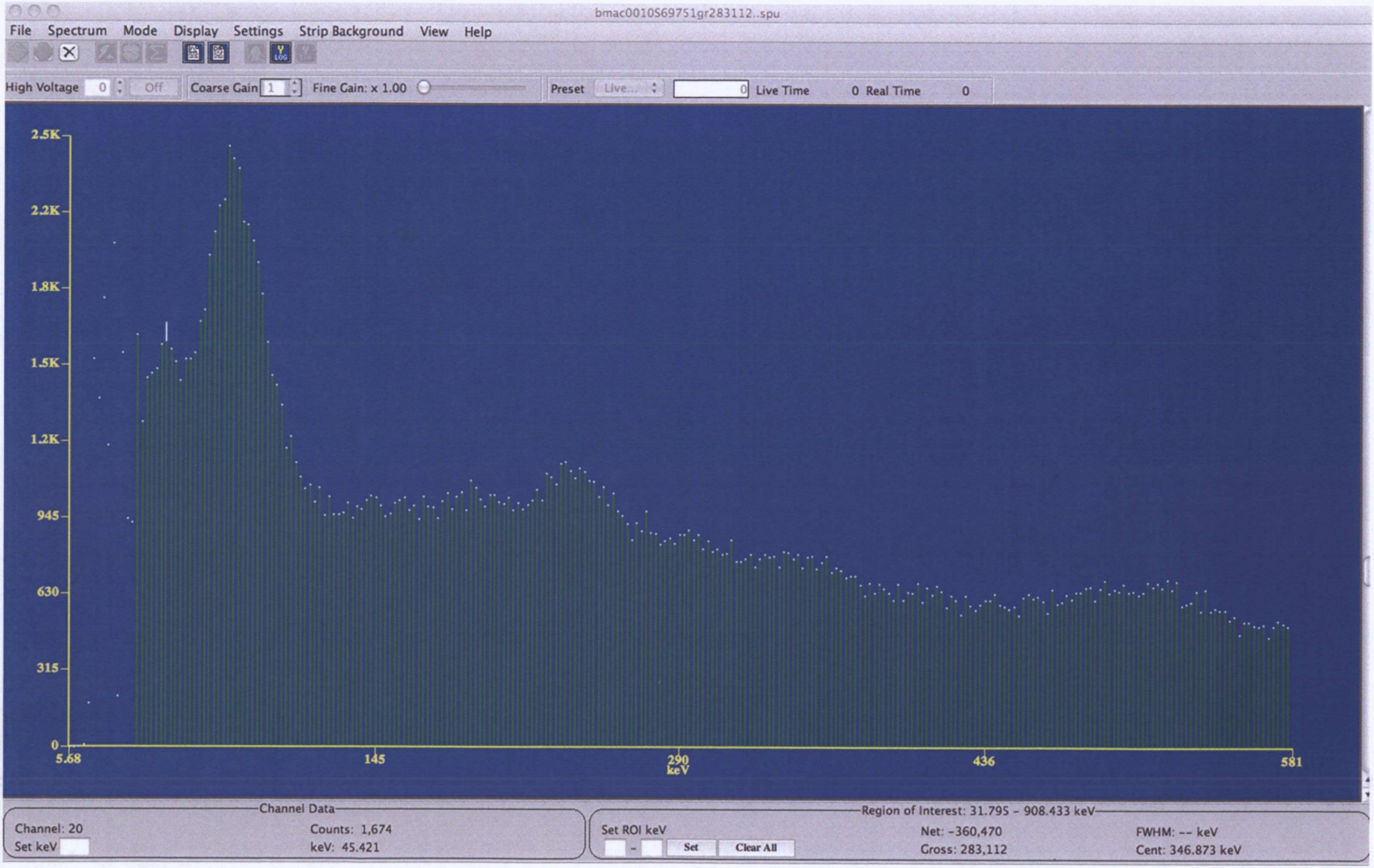
High Voltage 0 Off
Coarse Gain 1
Fine Gain: x 1.00
Preset Live...
0
Live Time 0 Real Time 0
2.5K
2.2K
1.8K
1.5K
1.2K
945
630
315
0
5.68
290
581
keV
872
1162
Channel Data
Channel: 82
Set keV
Counts: 1,002
keV: 186.228
Region of Interest: 31.795 - 908.433 keV
Set ROI keV
Set
Clear All
Net: -237,494
Gross: 264,253
FWHM: 15.897 keV
Cent: 345.424 keV

BMAC0010 – Spectra Data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High Voltage 0 Off
Coarse Gain 1
Fine Gain: x 1.00
Preset Live...
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2.5K
2.2K
1.8K
1.5K
1.2K
945
630
315
0
5.68
145
290
keV
436
581
Channel Data
Channel: 20
Set keV
Counts: 1,674
keV: 45.421
Region of Interest: 31.795 - 908.433 keV
Set ROI keV
Set
Clear All
Net: -360,470
Gross: 283,112
FWHM: -- keV
Cent: 346.873 keV